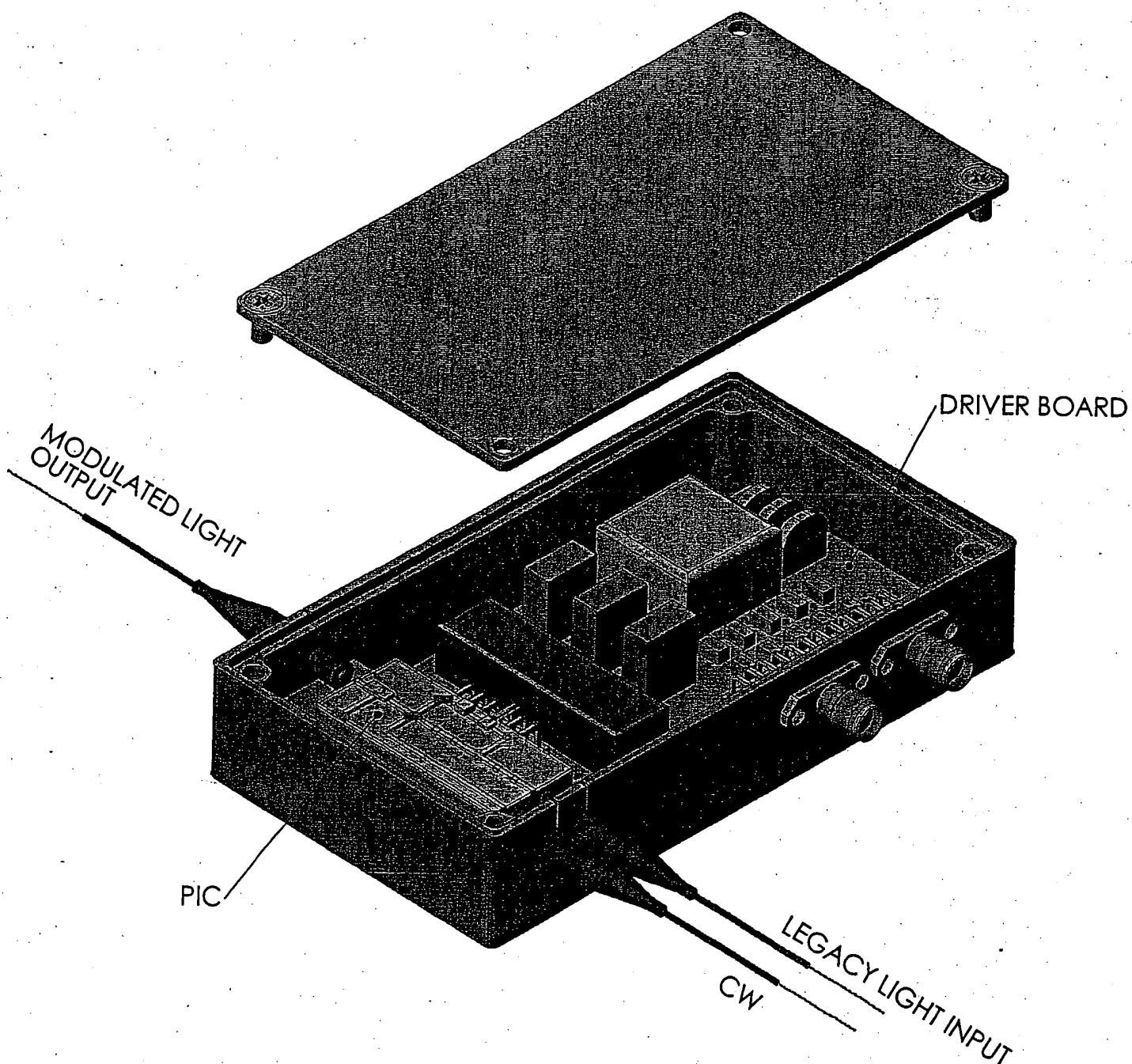


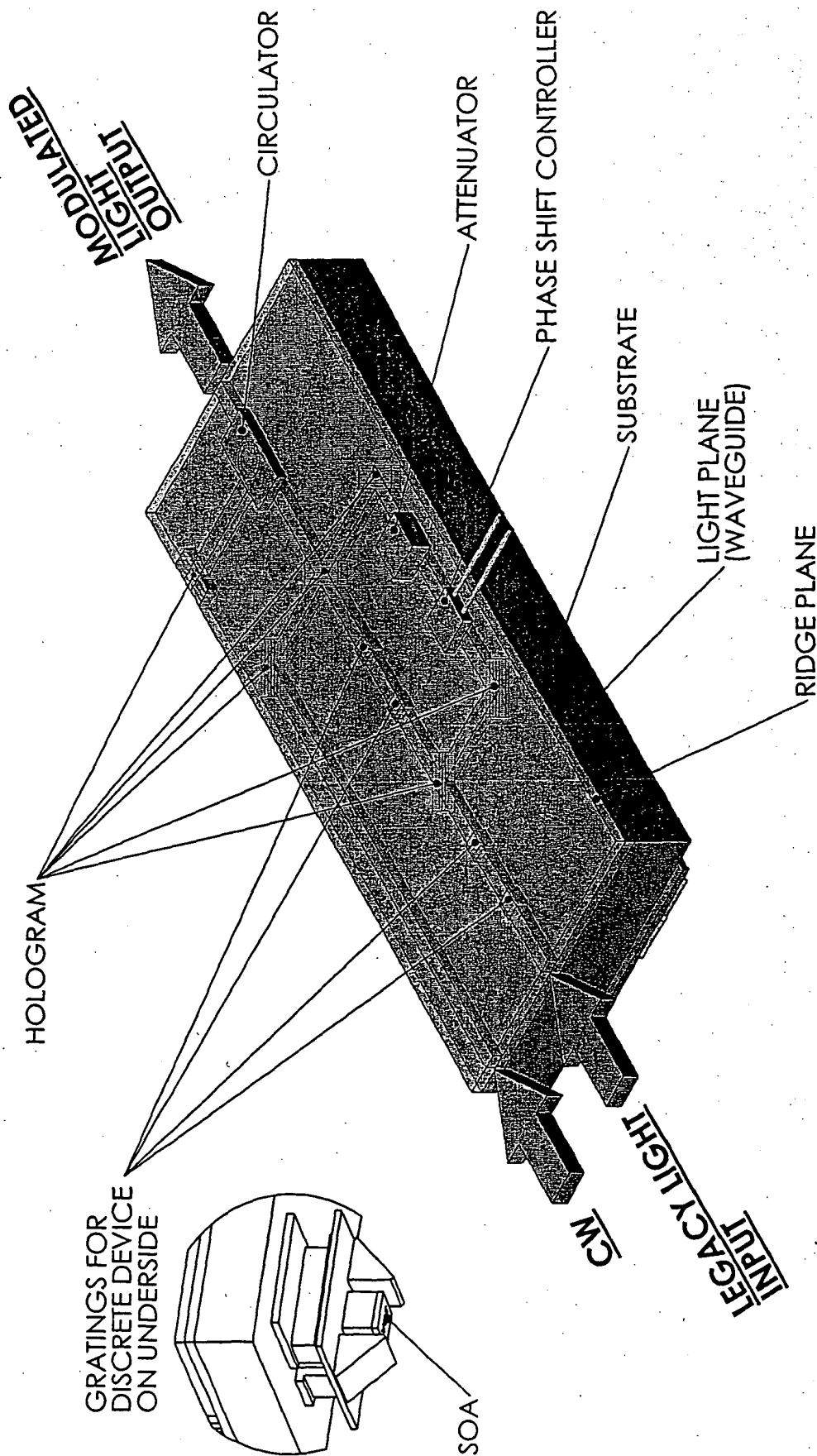
WAVELENGTH SHIFTER - MODULE

USING AN HPIC (HOLOGRAPHIC PHOTONIC INTEGRATED CIRCUIT)



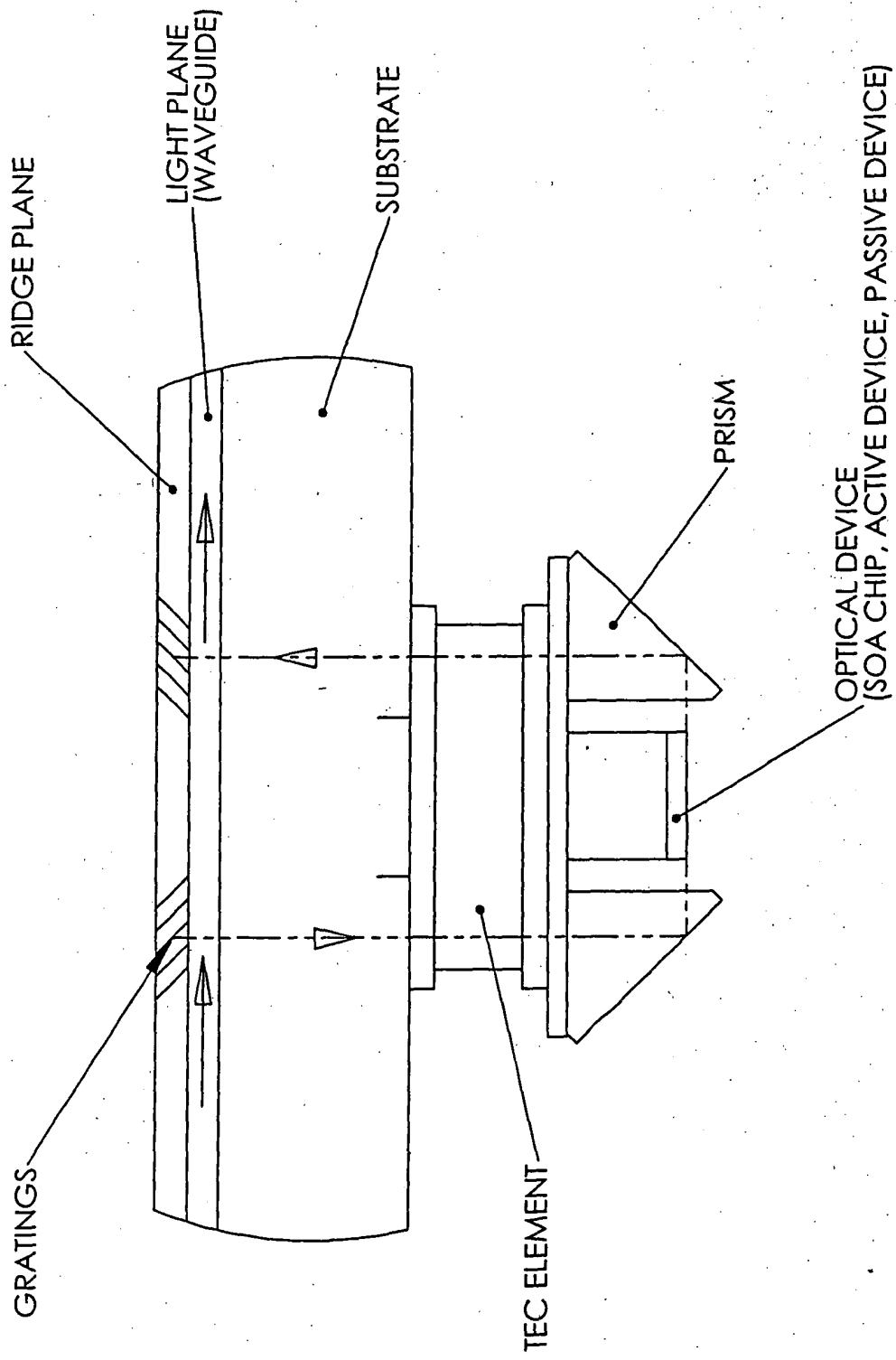
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WAVELENGTH SHIFTER - HOLOGRAPHIC PHOTONIC INTEGRATED CIRCUIT (HPIC)



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INTEGRATED DEVICE IN PLANAR WAVEGUIDES



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PHOTONIC PLANAR PROCESS

BASIC PHOTONIC INTERCONNECTION

